Instruction Manual

HITACHI
Inspire the Next

Model name
HDC-561E

5.0 Mega Pixel High Resolution
2.36" full color LTPS TFT LCD Display
4x Digital Zoom
3x Optical Zoom

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Note:

This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Use of shielded cable is required to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Notice

If static electricity or electromagnetism causes data transfer to discontinue midway (fail), restart the application or disconnect and connect the communication cable (USB, etc.) again.

READ THIS FIRST

Trademark Information

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- Pentium® is a registered trademark of Intel Corporation.
- Macintosh is a trademark of Apple Computer, Inc.
- SD™ is a trademark.
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Product Information

- Product design and specifications are subject to change without notice. This includes primary product specifications, software, software drivers, and user's manual. This User Manual is a general reference guide for the product.
- The product and accessories that come with your camera may be different from those described in this manual. This is due to the fact that different retailers often specify slightly different product inclusions and accessories to suit their market requirements, customer demographics, and geographical preferences. Products very often vary between retailers especially with accessories such as batteries, chargers, memory cards, cables, pouches, and language support. Occasionally a retailer will specify a unique product color, appearance, and internal memory capacity. Contact your dealer for precise product definition and included accessories.
- The illustrations in this manual are for the purpose of explanation and may differ from the actual design of your camera.
- The manufacturer assumes no liability for any errors or discrepancies in this user manual.

SAFETY INSTRUCTIONS

Read and understand all ***Warnings*** and ***Cautions*** before using this product.

Warnings

If foreign objects or water have entered the camera, turn the power off and remove the batteries.
Continued use might cause fire or electric shock. Consult the store of purchase.

If the camera has fallen or its case has been damaged, turn the power off and remove the batteries.
Continued use might cause fire or electric shock. Consult the store of purchase.

Do not disassemble, change or repair the camera.
This might cause fire or electric shock. For repair or internal inspection, ask the store of purchase.

Do not use the camera in areas near water.
This might cause fire or electric shock. Take special care during rain, snow, on the beach, or near the shore.

Do not place the camera on inclined or unstable surfaces.
This might cause the camera to fall or tilt over, causing damage.

Keep the batteries out of the reach of children.
Swallowing the batteries might cause poisoning. If the batteries are accidentally swallowed, immediately consult a physician.

Do not use the camera while you are walking, driving or riding a motorcycle.
This might cause you to fall over or result in traffic accident.

Cautions

Load the batteries paying careful attention to the polarity (+ or –) of the terminals.
Loading the batteries with their polarities inverted might cause fire and injury, or damage to the surrounding areas due to the battery rupturing or leaking.

Do not fire the flash close to anyone's eyes.
This might cause damage to the person's eyesight.

Do not subject the LCD monitor to impact.
This might damage the glass on the screen or cause the internal fluid to leak. If the internal fluid enters your eyes or comes into contact with your body or clothes, rinse with fresh water. If the internal fluid has entered your eyes, consult a physician to receive treatment.

A camera is a precision instrument. Do not drop it, strike it or use excessive force when handling the camera.
This might cause damage to the camera.

Do not use the camera in humid, steamy, smoky, or dusty places.
This might cause fire or electric shock.

Do not remove the batteries immediately after long period of continuous use.
The batteries become hot during use. Touching a hot battery might cause burns.

Do not wrap the camera or place it in cloth or blankets.
This might cause heat to build up and deform the case, resulting in fire. Use the camera in a well-ventilated place.

Do not leave the camera in places where the temperature may rise significantly, such as inside a car.
This might adversely affect the case or the parts inside, resulting in fire.

Before you move the camera, disconnect cords and cables.
Failure to do this might damage cords and cables, resulting in fire and electric shock.

Notes on Battery Usage

When you use the batteries, carefully read and strictly observe the ***Safety Instructions*** and the notes described below:

- Use only the specified batteries.
- Avoid extremely cold environments as low temperatures can shorten the battery life and reduce camera performance. Therefore Ni-MH rechargeable batteries are highly recommended.
- When you are using new rechargeable batteries or rechargeable batteries that have not been used for an extended period of time (the batteries that passed the expiry date are exception), it may affect the number of images that can be captured. Therefore, to maximize their performance and lifetime, we recommend that you fully charge the batteries and discharge them for at least one complete cycle before use.
- The batteries may feel warm after a long period of continuous use of the camera or the flash. This is normal and not a malfunction.
- The camera may feel warm after a long period of continuous use. This is normal and not a malfunction.
- If the batteries are not to be used for a long period of time, remove them from the camera to prevent leakage or corrosion and store them after no battery power is left. Stored for a long time in a fully charged condition, their performance may be impaired.
- Always keep the battery terminals clean.
- There is a risk of explosion if the batteries are replaced by an incorrect type.
- Dispose of used batteries according to the recycle instructions.
- We recommend charging the rechargeable batteries for 8 hours before the camera's first use.
- Never use batteries of different types (together) or mix old and new batteries.
- Never use manganese batteries.

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INTRODUCTION

Overview

Congratulations on your purchase of the new digital camera.
Capturing high-quality digital images is fast and easy with this state-of-the-art smart camera. Equipped with a 5.0-megapixel sensor, this camera is capable of capturing images with a resolution of up to 2560 x 1920 pixels.

Package Contents

Carefully unpack your camera and ensure that you have the following items:

Common Product Components:

- Digital Camera
- User's manual
- Software CD-ROM
- USB cable
- Camera strap
- Camera pouch
- 2 x AA size batteries

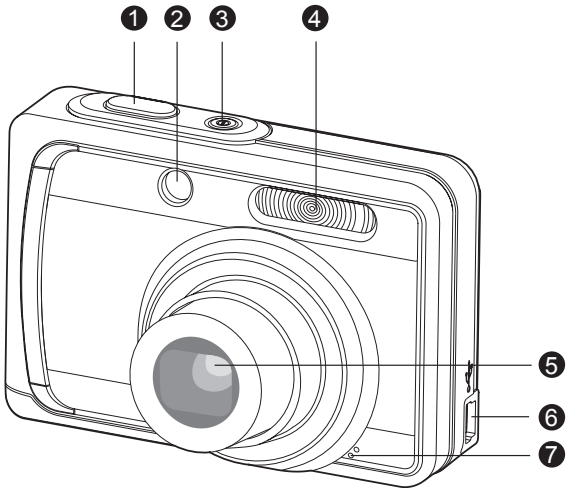
Common (Optional) Accessories:

- SD/SDHC memory card

- Accessories and components may vary by retailer.

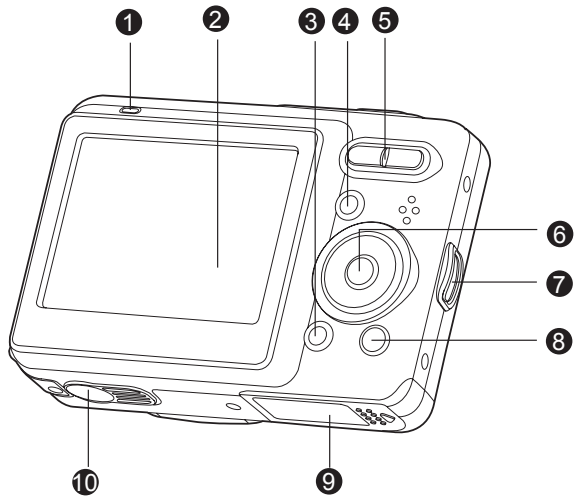
GETTING TO KNOW YOUR CAMERA

Front View



1.	Shutter button
2.	Self-timer LED
3.	Power button
4.	Flash
5.	Lens
6.	USB connector
7.	Microphone

Rear View

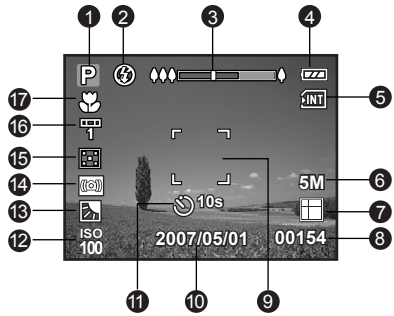


1. Status LED
2. LCD monitor
3. **MENU** Menu button
4. **MODE** Mode button
   - Capture mode
   - Video mode
5. Zoom in button
   Zoom out button
6. 5-way control button
   SCN/SET Scene/Set button
   - ▲ Up button
   - Focus button
   - ▶ Right button
   - Flash button
   - ▼ Down button
   - Self-timer button
   - Delete button
   - ◀ Left button
   - Backlight / Exposure compensation button
7. Strap holder
8. ▶ Playback button
9. Battery / Memory card cover
10. Tripod socket

LCD Monitor Display

Capture Mode

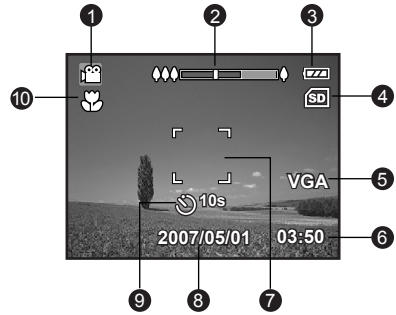
1. Mode indication
2. Flash mode
   [AUTO] Auto Flash
   [RED] Red-eye Reduction
   [ ] Forced Flash
   [OFF] Flash Off
3. Zoom status
4. Battery condition
   [FULL] Full battery power
   [MED] Medium battery power
   [LOW] Low battery power
   [ ] No battery power
5. Storage media
   [INT] Internal memory (no card)
   [SD] SD/SDHC memory card
6. Image size resolution
   [**5M**] 5M (2560 x 1920 pixels)
   [**3M**] 3M (2048 x 1536 pixels)
   [**1.2M**] 1.2M (1280 x 960 pixels)
   [**0.3M**]0.3M (640 x 480 pixels)
7. Image quality
   [ ] Fine
   [ ] Normal
   [ ] Economy
8. Available number of shots
9. Main focus area
10. Date and time
11. Self-timer icon
    [**10s**] 10 sec.
    [**2s**] 2 sec.



12. ISO
13. [ ] Backlight correction
    [ ] Exposure compensation
14. Slow shutter warning
    * Poor lighting conditions.
    Images will be vulnerable to vibration.
15. Metering
    [ ] Average
    [ ] Spot
16. W.Balance
    [**Blank**] Auto
    [ ] Incand.
    [ ] FI1
    [ ] FI2
    [ ] Daylight
    [ ] Cloudy
17. Focus setting
    [**Blank**] Auto Focus
    [ ] Macro
    [∞] Infinity

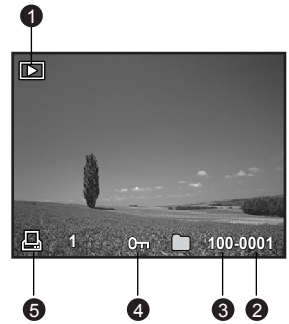
Video mode [ ]

1. Mode icon
2. Zoom status
3. Battery condition
4. Storage media
5. Video resolution
6. Available recording time/Elapsed time
7. Main focus area
8. Date and time
9. Self-timer icon
10. Focus setting



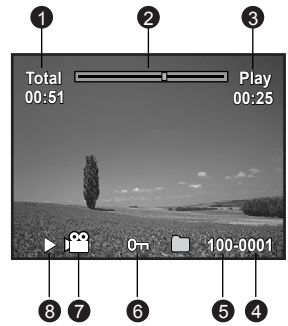
Playback mode [ ] - Still image playback

1. Mode icon
2. File number
3. Folder number
4. Protect icon
5. DPOF icon



Playback mode [ ] - Video playback

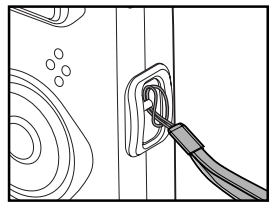
1. Total recorded time
2. Video status bar
3. Elapsed time
4. File number
5. Folder number
6. Protect icon
7. Mode icon
8. Play mode



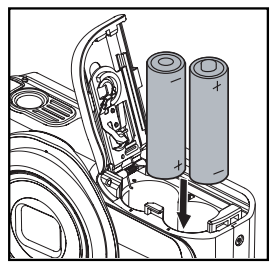
GETTING STARTED

Preparation

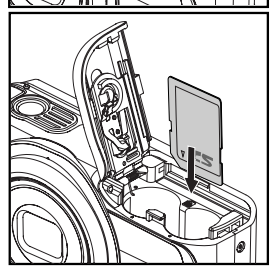
1. Attach the camera strap.

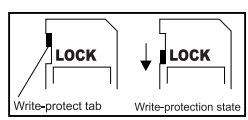


2. Open the battery/memory card cover.
3. Load the supplied batteries with correct orientation as shown.



4. Insert an SD/SDHC memory card (Optional).
   - The camera has 32MB internal memory (28MB available for image storage), but you can load an SD/SDHC memory card to expand the camera's memory capacity.
   - Be sure to format the memory card with this camera before its initial usage.
5. Close the battery/memory card cover and make sure it is locked securely.





- To prevent valuable data from being accidentally erased from an SD/SDHC memory card, you can slide the write protect tab (on the side of the SD/SDHC memory card) to "LOCK".
- To save, edit, or erase data on an SD/SDHC memory card, you must unlock the card.
- To prevent damaging of an SD/SDHC memory card, be sure to turn off the power when inserting or removing the SD/SDHC memory card. If inserting or removing the SD/SDHC memory card with the power on, the camera will automatically turn off.
- Be careful not to drop the batteries when opening or closing the battery cover.
- Due to the characteristics of AA alkaline battery, camera performance may deteriorate. AA alkaline battery is not recommended except in emergencies and checking the camera's functionality.

Initial Settings

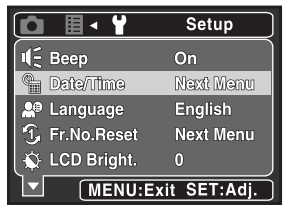
Setting the Date and Time

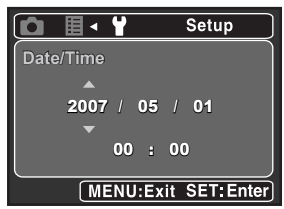
The date/time needs to be set if and when:

- Camera is turned on for the first time.
- Camera is turned on after leaving the camera without the battery for an extended period of time.

Follow these steps to set the correct date and time:

1. Press the Power button to turn the power on.
2. Press the **MODE** button to set the camera mode to [ ] / [ ].
   - In the [ ] Capture mode, the LCD monitor display is followed by the scene mode setting.
3. Press the **MENU** button
4. Select [Setup] with the ▶ button.
5. Select [Date/Time] with the ▲ / ▼ buttons, and press the **SET** button.
   - Select the item's field with the ◀ / ▶ buttons and adjust the value for the date and time with the ▲ / ▼ buttons.
   - The time is displayed in 24-hour format.
   - After confirming all settings are correct, press the **SET** button.
6. To exit from the [Setup] menu, press the **MENU** button.

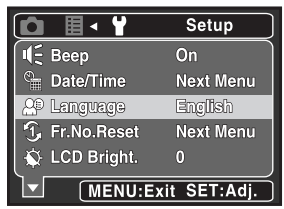




Choosing the Language

Specify in which language menus and messages are to be displayed on the LCD monitor.

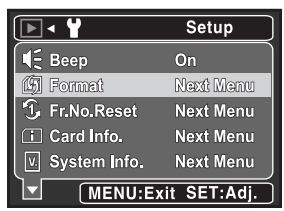
1. Set the camera mode to [ ] / [ ].
   - You may set the language from the playback mode.
2. Press the **MENU** button.
3. Select [Setup] menu with the ▶ button.
4. Select [Language] with the ▲ / ▼ buttons, and press the **SET** button.
   - The Language setting screen will be displayed.
5. Select the displayed language with the ▲ / ▼ buttons, and press the **SET** button.
   - The setting will be stored.



Formatting the Memory Card or Internal Memory

This utility formats the internal memory (or memory card) and erases all stored images and data.

1. Press the ▶ button.
2. Press the **MENU** button
3. Select [Setup] menu with the ▶ button.
4. Select [Format] with the ▲ / ▼ buttons, and press the **SET** button.
5. Select [Execute] with the ▲ / ▼ buttons, and press the **SET** button.
   - To cancel formatting, select [Cancel] and press the **SET** button.

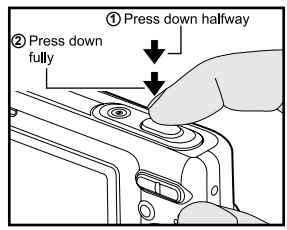


CAPTURE MODE

Capturing Images

Your camera is equipped with a 2.36" full color LTPS-TFT LCD monitor to help you compose images, playback recorded images/video clips or adjust menu settings.

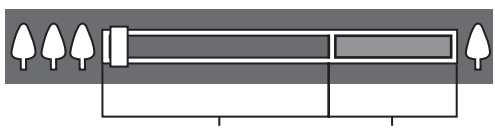
1. Press the Power button to turn the power on.
   - The status LED lights green and the camera is initiated.
2. Set the camera mode to [ ].
3. Compose your image in the LCD monitor.
   - Pressing the ▲ button zooms in on the subject, and enlarges the subject on the LCD monitor.
   - Pressing the ▼ button provides a wider angle image.
4. Press the shutter button.
   - Pressing the shutter button down halfway automatically focuses and adjusts the exposure, and pressing the shutter button down fully captures the images.
   - The focus area frame turns blue when the camera is in focus and the exposure is calculated.
   - When the focus or exposure is not suitable, the frame of the focus area turns yellow.
   - If the photographic preview is set to [On], the captured image will be displayed while the image is being recorded onto the SD/ SDHC memory card or internal memory.



Zoom Function

Using a combination of 3 times optical zoom and 4 times digital zoom permits zoom photography at up to 12 times magnification. While the digital zoom can be a useful feature, the more an image is enlarged (zoomed), the more pixelated (grainier) the image will appear.

1. Set the camera mode to [ ].
2. To enable the digital zoom:
   a. Press the **MENU** button.
   b. Select [Function] with the ▶ button.
   c. Select [Digital Zoom] with the ▲ / ▼ buttons, and press the **SET** button.
   d. Select [On] with the ▲ / ▼ buttons again, and press the **SET** button.
   e. Press the **MENU** button to exit from the menu screen.
   f. To activate the digital zoom, press and hold the button completely until the image on the LCD monitor expands.
3. Press the shutter button to capture a “zoomed” image.

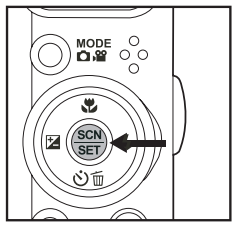


- The digital zoom can not be used in the video mode.
- The zoom setting is automatically cancelled by either turning the camera off or the activation of the Auto Off function.

Setting the Scene Mode

By simply selecting one of the following 17 modes, you can capture the image with the most appropriate settings.

1. Set the camera mode to [ ].
2. Press the **SCN** button.



3. Select the desired scene mode with the ◄/► buttons, and press the **SET** button.
4. Compose the image and press the shutter button.

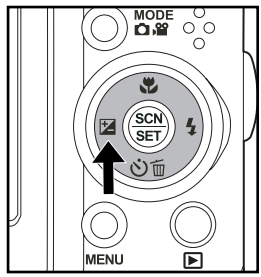
The table below will help you choose the appropriate scene mode:

Scene mode	Description
P Program AE	Select this mode to capture images without having to set special functions or manual adjustments. However, this useful mode also allows you to make changes on the camera settings to suit the photographic condition.
Portrait Man	Select this mode when you want to capture an image that makes a man stand out againt a defocused (blurred) background.
Portrait Lady	Select this mode when you want to capture an image that makes a lady stand out againt a defocused (blurred) background.
Landscape	Select this mode to capture an image with infinity focus, hard sharpness and high saturation.
Sports	Select this mode when you want to capture fast-moving subjects.
Night Portrait	Select this mode when you want to capture people with an evening or night scene background.
Night Scene	Select this mode when you want to capture dark scenes such as night views.
Candlelight	Select this mode when you want to capture photos of candlelit scene, without spoiling the ambience.
Fireworks	Select this mode when you want to capture fireworks clearly with optimal exposure. The shutter speed becomes slower, so using a tripod is recommended.

Scene mode	Description
Text	Select this mode when you want to capture an image that contains black and white subjects like printed documents.
Sunset	Select this mode when you want to capture a sunset. This mode helps keep the deep hues in the scene.
Sunrise	Select this mode when you want to capture a sunrise. This mode helps keep the deep hues in the scene.
Splash Water	Select this mode when you want to capture photos of splashing water.
Flow Water	Select this mode when you want to capture the soft flowing water.
Snow	Select this mode when you want to capture clear snow scenes without darkened subjects and bluish tint.
Beach	Select this mode when you want to capture bright beach scenes and sunlit water surfaces.
Pets	Select this mode when you want to capture your pets. Shoot from their eye level.

Exposure Compensation/Backlight Correction

Images can be captured with the overall scene intentionally made brighter or darker. These settings are used when a suitable brightness (exposure) cannot otherwise be obtained in circumstances where the difference in brightness between the subject and the background (the contrast) is large, or when the subject that you wish to capture is very small within the scene. Exposure can be set in 1/3 EV units.



1. Set the camera mode to [ ].
2. Press the button.
   - Each press of the button displays the setting in the order of [] Backlight Correction and [] Exposure Compensation.
3. Set the exposure value with the ▲ / ▼ buttons.
   - Press the ▲ button to increase the value.
   - Press the ▼ button to decrease the value.
   - The setting range of the exposure compensation is as follows:-2.0, -1.7, -1.3, -1.0, -0.7, -0.3, 0.0, 0.3, 0.7, 1.0, 1.3, 1.7, 2.0.
   - Press the button to confirm the setting.
   - The larger the value, the brighter the image. The smaller the value, the darker the image. The set value is displayed on the screen.

Effective Subjects and Set Values

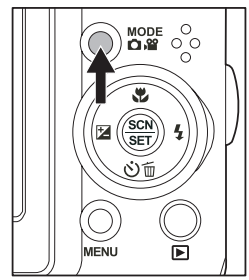
+(positive) compensation	-(negative) compensation	Backlight correction (+1.3 EV, fixed)
* Printed matter with black text on whitish paper. * Backlighting. * Bright scenes or strong reflected light such as ski slopes. * When the sky accounts for a large area on the screen.	* People illuminated by a spotlight, in particular, against dark background. * Printed matter with white text on blackish paper. * Weak reflecting bodies such as evergreen trees or darkish leaves	* When the background is bright and the subject is dark. * When subjects (people) have a light source such as the sun to their backs.

VIDEO MODE

Recording Video Clips

This mode allows you to record video clips at a resolution of 320 x 240 / 640 x 480 pixels. Voice can also be recorded.

1. Set the camera mode to [🎥].
2. Compose the image.
3. Press the shutter button.
   - The recording of the video clip will start.
   - Pressing the shutter button one more time will end the recording of the video clip.
   - The recording time depends on the storage size and the subject of the image to be recorded.
   - The zoom function cannot be used during video recording.



- When recording a video clip, the flash cannot be used.
- If the write speed of your SD/SDHC memory card is not fast enough for recording video clips in the currently selected size, and then the video recording will stop. In this case, select a video size lower than the current one.

Playing Back Video Clips

You can play back recorded video clips on the camera.

1. Press the ▶ button.
   - The last image appears on the screen.
2. Select the desired video clip with the ◄ / ► buttons.
3. Press the **SET** button.
   - A press of the ► / ◄ buttons during playback allows fast forward play / fast reverse play.
   - To stop video playback, press the ▼ button.
     This stops playback and returns to the start of the video clip.
   - To pause video playback, press the **SET** button.
     This pauses video playback.
     To cancel pause, press the **SET** button again.

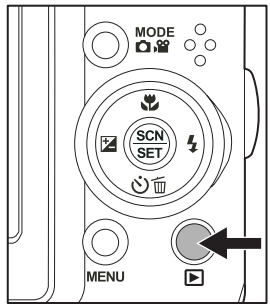
- Video clips cannot be displayed rotated or enlarged.
- This camera does not have a built-in speaker so that you can not play back sound with the camera. To play the video clip back on your computer, you may use either Windows Media Player or Apple “Quick Time Player”.
- Quick Time basic player is available free of charge, compatible with Mac and Windows-computers and can be downloaded from the Apple web site at www.apple.com. For help using Quick Time Player usage, please refer to the Quick Time on-line help for more information.

PLAYBACK MODE

Playing Back Still Images

You can play back the still images on the LCD monitor.

1. Press the ▶ button.
   - The last image appears on the screen.
2. The images can be displayed in reverse or forward sequence with the ◀ / ▶ buttons.
   - To view the previous image, press the ◀ button.
   - To view the next image, press the ▶ button.
   - Pressing the ▲ button enlarges the image.
   - To return to normal magnification, press the ▲▲▲ button.



- An [🎥] icon is displayed with the video data.

Thumbnail Display

This function allows you to view 9 thumbnail images on the LCD monitor at the same time, which can let you quickly search for the image that you want.

1. Press the ▶ button.
   - The last image appears on the screen.
2. Press the ⋔ button.
   - The images are displayed in the thumbnail display.
   - Images that have been selected with the ◀ / ▶ / ▲ / ▼ buttons will be indicated by a yellow frame.
   - When there are ten or more images, scroll the screen with the ▲ / ▼ buttons.
3. Press the ◀ / ▶ / ▲ / ▼ buttons to select the image to be displayed at regular size.
4. Press the **SET** button.
   - The selected image is displayed at its regular size.

- In the 9-thumbnail mode, an [🔑], [📷], [🖨] icon may be displayed in a thumbnail.

Slideshow Display

The slideshow function enables you to playback your still images automatically in order one image at a time.

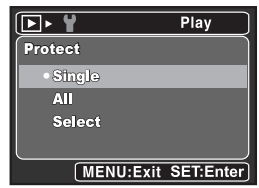
1. Press the ▶ button..
2. Press the **MENU** button.
3. Select [Slide Show] and press the **SET** button.
4. Select the desired interval time with the ▲ / ▼ buttons, and press the **SET** button.
   - The slideshow starts.
5. To stop the slide show during playback, press the **SET** button.
   - The image is displayed on screen when you press the **SET** button.

- The Auto Off function does not operate during slide show.
- All still images in the folder are automatically played back.
- Video files are displayed first frame image, and they are not played back.

Protecting Images

Set the data to read-only to prevent images from being erased by mistake.

1. Press the ▶ button.
2. Select the image that you want to protect with the ◀ / ▶ buttons.
3. Press the **MENU** button.
4. Select [Protect] with the ▲ / ▼ buttons, and press the **SET** button.
5. Select [Single] or [All] with the ▲ / ▼ buttons, and press the **SET** button.
6. Select [Set] with the ▲ / ▼ buttons, and press the **SET** button.
   - Protection is applied to the image and the camera returns to the previous menu mode.
   - The protect icon [🔑] is displayed with protected images.
     When [All] has been selected, [🔑] is displayed with all the images.



Canceling the Protection

To cancel protection for only one image, display the image on which you want to remove the image protection.

1. Select [Protect] with the ▲ / ▼ buttons from the playback menu, and press the **SET** button.
2. Select [Single] or [All] with the ▲ / ▼ buttons, and press the **SET** button.
3. Select [Cancel Protect] with the ▲ / ▼ buttons, and press the **SET** button.
   - The removal of image protection is executed and the camera returns to the previous menu mode.

Protecting multiple images simultaneously

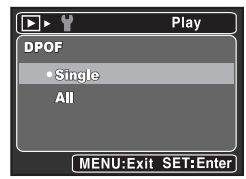
1. Select [Protect] with the ▲ / ▼ buttons from the playback menu, and press the **SET** button.
2. Select [Select] with the ▲ / ▼ buttons, and press the **SET** button.
   - The images are displayed in the thumbnail display.
3. Select the images you want to protect with the ◀ / ▶ / ▲ / ▼ buttons, and press the ▶ button.
   - The protect icon [🔑] is displayed with protected images. Selecting a protected image and pressing the ▶ button again will cancel the protection. This procedure is repeated to select multiple images.
4. Press the **SET** button.
   - Protection and cancellation of the protection are executed and the camera returns to playback mode.

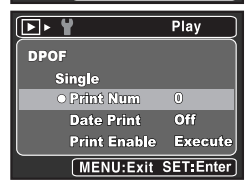
- Formatting an SD/SDHC memory card or internal memory overrides protection, and erases all images regardless of their protected status.

DPOF Settings

DPOF is the abbreviation for Digital Print Order Format, which allows you to embed printing information on your memory card. You can select the images to be printed and how many prints to make with the DPOF menu in the camera and insert the memory card to the card compatible printer. When the printer starts printing, it will read the embedded information on the memory card and print the specified images.

1. Press the ▶ button.
2. Select the image that you want to set DPOF with the ◀ / ▶ buttons.
3. Press the **MENU** button.
4. Select [DPOF] with the ▲ / ▼ buttons, and press the **SET** button.
   - The DPOF setting screen is displayed.
5. Select [Single] or [All] with the ▲ / ▼ buttons, and press the **SET** button.
   - [Single]: Sets DPOF for each individual image.
   - [All]: Sets DPOF for all images at once.
6. Select [Print Num] with the ▲ / ▼ buttons, and press the **SET** button.
   - This displays the number of prints setting screen.
7. Set the number of prints with the ▲ / ▼ buttons, and press the **SET** button.
   - You can set up to 9 prints for each image.
8. Select [Date Print] with the ▲ / ▼ buttons, and press the **SET** button.
   - The date setting screen appears.
9. Select date to [On] or [Off] with the ▲ / ▼ buttons, and press the **SET** button.
   - [On]: The date of the image will also be printed.
   - [Off]: The date of the image will not be printed.
10. Select [Print Enable] with the ▲ / ▼ buttons, and press the **SET** button.
11. Select [Execute] with the ▲ / ▼ buttons, and press the **SET** button.
    - This creates a file containing the DPOF information, and when the operation is finished, the screen returns to the playback mode.
    - The DPOF icon [🖶] is displayed on each image that has set up DPOF settings.



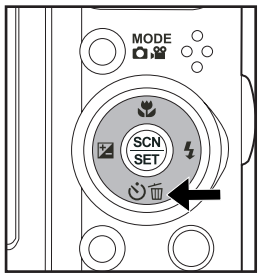


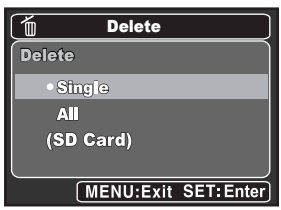
- The date that is printed on the image is the date set on the camera. To print the correct date on the image, set the date on the camera before you capture the image. Refer to section in this manual titled “Setting the Date and Time” for further details.

Erasing Images

Erasing single image / Erasing all images

1. Press the ▶ button.
   - The last image will be displayed on the screen.
2. Select the image you want to erase with the ◀ / ▶ buttons.
3. Press the 🗑 button.
   - The deletion menu will be displayed.
4. Select [Single] or [All] with the ▲ / ▼ buttons, and press the **SET** button.
   - [Single]: Erases the selected image or the last image.
   - [All]: Erases all of the images except for the protected images.
5. Select [Execute] with the ▲ / ▼ buttons, and press the **SET** button.
   - To not erase, select [Cancel], and press the **SET** button.



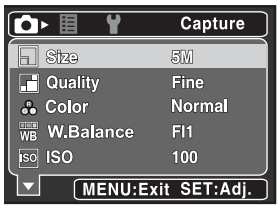


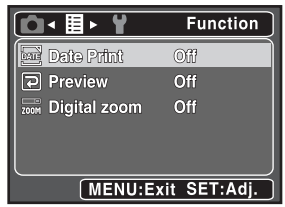
- Deleting an image will not affect sequential image numbering. For example, if you delete image number 240, the next captured image will be numbered 241 even though 240 no longer exists. In other words, an image-number is retired when an image is deleted and will not be reused or reassigned to another subsequently captured image.

MENU OPTIONS

Capture Menu

This menu is for the basic settings to be used when capturing still images.





1. Set the camera mode to [ ].
2. Press the **MENU** button, and select the [Capture] / [Function] menu with the ◄ / ► button.
3. Select the desired option item with the ▲ / ▼ buttons, and press the **SET** button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
5. To exit from the menu, press the **MENU** button.

Size

This sets the size of the image that will be captured.

* [**5M**] 5M (2560 x 1920 pixels)
* [**3M**] 3M (2048 x 1536 pixels)
* [**1.2M**] 1.2M (1280 x 960 pixels)
* [**0.3M**] 0.3M (640 x 480 pixels)

Quality

This sets the quality (compression) at which the image is captured.

* [ ] Fine
* [ ] Normal
* [ ] Economy

Color

This sets the color of the image that will be captured.

* Normal / Vivid / Sepia / B&W

W. Balance

This sets the white balance for a variety of lighting conditions and permits images to be captured that approach the conditions that are seen by the human eye.

* [Blank] Auto
* [ ] Incand.
* [ ] Fl1
* [ ] Fl2
* [ ] Daylight
* [ ] Cloudy

ISO

This sets the sensitivity for capturing images. When the sensitivity is raised (and the ISO figure is increased), photography will become possible even in dark locations, but the more pixelated (grainier) the image will appear.
* Auto / 50 / 100 / 200

Metering

This sets the metering method for calculating the exposure.
* [ ] Average: The entire area of the screen is measured, and the exposure is calculated.
* [ ] Spot: A very small portion of the center of the screen is measured, and the exposure is calculated.

Sharpness

This sets the sharpness of the image that will be captured.
* Hard / Normal / Soft

Saturation

This sets the saturation of the image that will be captured.
* High / Normal / Low

Date Print

The date of recording can be printed directly on the still images. This function must be activated before the image is captured.
* On / Off

Preview

This sets the preview interval when displaying the captured image on the screen immediately after the image is captured.
* On / Off

Digital Zoom

This sets whether or not to use digital zoom at the time of photography.
* On / Off

Video Menu

This menu is for the basic settings to be used when recording video clips.

1. Set the camera mode to [ ].
2. Press the **MENU** button.
3. Select the desired option item with the ▲ / ▼ buttons, and press the **SET** button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
5. To exit from the menu, press the **MENU** button.

Size

This sets the size of the video clip that will be captured.
* [VGA] 640 x 480
* [QVGA] 320 x 240

Color

This sets the color of the video clip that will be captured.
* Normal / Vivid / Sepia / B&W

Playback Menu

In the [▶] mode, choose which settings are to be used for playback.

1. Press the ▶ button.
2. Press the **MENU** button.
3. Select the desired option item with the ▲ / ▼ buttons, and press the **SET** button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
5. To exit from the menu, press the **MENU** button.

Slide Show

Refer to section in this manual titled “Slideshow Display” for further details.

DPOF

Refer to section in this manual titled “DPOF Settings” for further details.

Protect

Refer to section in this manual titled “Protecting Images” for further details.

LCD Bright.

Select a brightness level for the LCD monitor.
The LCD becomes brighter with the ▲ button and darker with the ▼ button. The adjustment range is from -5 to 5.

Copy to Card

Allows you to copy your files from the camera’s internal memory to an SD/SDHC memory card. Of course, you can only do this if you have a memory card installed and some files in internal memory.
* Cancel / Execute

Setup Menu

Set your camera's operating environment.

1. Set the camera mode to [ ] / [ ] / [ ].
2. Press the **MENU** button.
3. Select the [Setup] menu with the ▶ button.
4. Select the desired option item with the ▲ / ▼ buttons, and press the **SET** button to enter its respective menu.
5. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
6. To exit from the menu, press the **MENU** button.

Beep

This sets whether or not to mute the camera sound each time you press the camera's buttons.
* On / Off

Date/Time

Refer to section in this manual titled "Setting the Date and Time" for further details.

Language

Refer to section in this manual titled "Choosing the Language" for further details.

Fr. No. Reset

This creates a new folder. The captured images are recorded to the newly created folder from number 0001.
* Cancel / Execute

LCD Bright.

Refer to section in this manual titled "LCD Bright." in Playback Menu for further details.

Auto Off

If no operation is performed for a specific period of time, the power to the camera is automatically turned off. This feature is useful for reducing battery usage.
* 1 Min. / 2 Min. / 3 Min. /Off

AE Flicker

This camera supports different lighting frequencies: 50 Hz and 60 Hz. When photographing under fluorescent lighting, select the correct frequency setting depending in your local area's voltage. This function is only effective if you set the White Balance to Fluorescent setting.
* 50Hz / 60Hz

Sys. Reset

This returns all basic settings to the camera’s default settings. The time setting will not be reset.
* Cancel / Execute

Format

Refer to section in this manual titled “Formatting the Memory Card or Internal Memory” for further details.

Card Info.

This displays the free capacity of the internal memory or the memory card.

System Info.

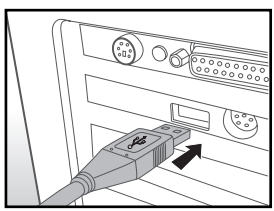
This displays the firmware version of the camera.

TRANSFERRING FILES TO YOUR COMPUTER

System Requirement

Windows	Macintosh
■ Pentium 166 MHz or higher ■ Windows 2000/XP/Vista ■ 128MB RAM ■ 128MB hard disk space ■ CD-ROM drive ■ Available USB port	■ PowerPC G3/G4/G5 ■ OS 9.0 or later ■ 128MB RAM ■ 128MB hard disk space ■ CD-ROM drive ■ Available USB port

Downloading Your Files



1. Connect one end of the USB cable to an available USB port on your computer.
2. Connect the other end of the USB cable to the USB terminal on the camera.
3. Turn on your camera.
4. Select [PC] using the ▲ / ▼ buttons, and press the **SET** button.
5. From the Windows desktop, double click on "My Computer".
6. Look for a new "removable disk" icon.
   - ■ This "removable disk" is actually the memory (or memory card) in your camera. Typically, the camera will be assigned drive letter "e" or higher.
7. Double click on the removable disk and locate the DCIM folder.
8. Double click on the DCIM folder to open it to find more folders.
   - ■ Your recorded images and video clips will be inside these folders.
9. Copy & Paste or Drag-N-Drop image and video files to a folder on your computer.

Mac users: Double-click the "untitled" or "unlabeled" disk drive icon on your desktop. iPhoto may automatically launch.

- ■ Formatting the internal memory or SD/SDHC memory card by computer (via USB connection) as NTFS file system, the stored data will be automatically deleted by the camera.
- ■ Do not format the internal memory or SD/SDHC memory card as NTFS file system.

EDITING SOFTWARE INSTALLATION

There are two types of software that are included on the CD-ROM:
Ulead® Photo Explorer - lets you spend more time enjoying photos, music and videos and less time finding them. It is the all-in-one solution for owners of digital cameras, camcorders, scanners or anyone who wants to make it easier to keep track of their media.

Ulead® Photo Express - makes it easy to edit and share digital photos and create fun photo projects. Edit and enhance images, browse your photo collection and express your creativity with stunning special effects and creative photo projects.

To install software:

1. Insert the CD-ROM that came with the camera into your CD-ROM drive.
   The welcome screen appears.
2. Click the respective software name.
   Follow the on-screen instructions to complete the installation.

- For more information about the operation of the software, refer to its respective help documentation.
- For Windows 2000/XP users, please make sure to install and use the software in "Administrator" mode.
- The software is not supported on the Mac.
- The software is not supported by Windows Vista.

USING THE CAMERA AS A PC CAMERA

Your camera can act as a PC camera, which allows you to videoconference with business associates, or have a real-time conversation with friends or family. To use the camera for videoconferencing, your computer system must include the items as below:

- Microphone
- Sound card
- Speakers or headphones
- Network or Internet connection

- Video conferencing (or video editing) software is not included with the camera.
- This mode is not supported on the Mac.

Run your application software (i.e. Yahoo Messenger)

Yahoo Messenger is a free application available at www.yahoo.com. You can use your camera as a web cam allowing others to see you online.

1. After installing the PC Cam driver in your Windows operating system, restart your computer.
2. Connect one end of the USB cable to the USB terminal of the camera.
3. Connect the other end of the USB cable to an available USB port on your computer.
4. Turn on your camera.
5. Select [PC Camera] with the ▲ / ▼ buttons and press the **SET** button.
6. Position the camera steadily on top of your computer monitor or use a tripod.
7. Run your application software (i.e. Yahoo Messenger).
   - Simply follow the instructions in Yahoo Messenger to start your camera.

- The video resolution for videoconferencing applications is generally 320 x 240.
- For more information about the operation of videoconference application software, refer to its respective help documentation.

SPECIFICATIONS

Item	Description
Image sensor	1/2.5” CMOS sensor (5.0 megapixels)
Image resolution	<Still image> 2560 x 1920, 2048 x 1536, 1280 x 960, 640 x 480 <Video clip> 640 x 480 (24 fps), 320 x 240 (30 fps)
LCD monitor	2.36” full color LTPS-TFT LCD (115K pixels)
Recording media	32MB internal memory (28MB available for image storage) Supports SD/SDHC memory card (up to 4GB) (optional)
File format	JPEG, DCF, EXIF 2.2, DPOF, AVI
Lens	3x optical zoom lens Aperture range: 2.8 (W) - 4.8 (T) Focal length: 6.1mm - 18.3mm (equivalent to 36mm - 108mm on a 35mm camera)
Focus Range	Auto Focus 0.4m to infinity Macro Normal: 0.3m to infinity Wide: 0.05m to infinity Tele: 0.35m to infinity
Shutter speed	1/2 - 1/1000 sec.
Digital zoom	4x (Capture mode) 1-4x in 0.5x increment (Playback mode)
Flash effective range	0.5m - 2.7m (Wide) 0.5m - 2.1m (Tele)
Terminal	USB 1.1
Power supply	2 x AA size batteries
Dimensions	Approx. 89.5 x 61 x 28.8mm (without protruding parts)
Weight	Approx. 134g (without batteries and memory card)

* Design and specifications are subject to change without notice.

APPENDIX

Possible Number of Shots

Possible number of shots (still image)

The table shows the approximate shots that you can capture at each setting based on the capacity of the internal memory and the SD/SDHC memory card.

Size	Quality	Internal Memory	SD/SDHC memory card capacity						
			64MB	128MB	256MB	512MB	1GB	2GB	4GB SDHC
5M 2560 x 1920	Fine	8	18	37	75	150	302	604	1058
	Normal	14	29	60	121	243	487	974	1856
	Economy	20	42	85	172	345	691	1383	2743
3M 2048 x 1536	Fine	11	24	48	97	196	392	786	1387
	Normal	18	39	78	158	317	635	1272	2514
	Economy	26	55	111	224	450	902	1806	3550
1.2M 1280 x 960	Fine	22	47	95	191	385	770	1543	2682
	Normal	34	70	142	186	574	1150	2303	4642
	Economy	49	102	207	416	835	1673	3348	7100
0.3M 640 x 480	Fine	64	134	270	543	1091	2184	4372	8621
	Normal	90	187	378	761	1526	3057	6118	15087
	Economy	116	240	485	976	1957	3920	7845	20117

Possible recording time / sec (video clip)

Size	Internal Memory	SD/SDHC memory card capacity						
		64MB	128MB	256MB	512MB	1GB	2GB	4GB SDHC
VGA 640 x 480	00:30	01:04	02:12	04:27	08:58	18:00	36:05	01:12:15
QVGA 320 x 240	01:01	02:08	04:21	08:48	17:41	35:27	01:11:00	02:22:28

Troubleshooting

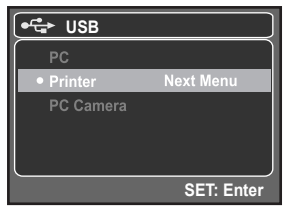
Refer to the symptoms and solutions listed below before sending the camera for repairs. If the problem persists, contact your local reseller or service center.

Symptom	Cause	Solutions / Corrective Actions
The power does not come on.	The batteries are not loaded.	Load the batteries correctly.
	The batteries are exhausted.	Replace with a new set of batteries.
The batteries or camera feels warm.	Long period of continuous use of the camera or the flash.	
Even if I press the shutter button, the camera does not shoot.	The shutter button is not pressed all the way down.	Press the shutter button all the way down.
	The internal memory or memory card does not have any free capacity.	Insert a new memory card, or delete unwanted files.
	The flash is charging.	Wait until the status LED turns green.
	The memory card is write-protected.	Remove the write-protection.
Although it is set to auto focus, it does not focus.	The lens is dirty.	Wipe clean with a soft, dry cloth or lens paper.
	The distance to the subject is smaller than the effective range.	Get your subject within the effective focus range.
Files cannot be deleted.	The file is protected.	Cancel protection.
	The memory card is write-protected.	Remove the write-protection.
Cannot download images.	The free space on the hard disk in your computer may be insufficient.	Check whether the hard disk has a space for running Windows, and if the drive for loading image files has a capacity at least that of the memory card inserted in the camera.
	No power supply.	Replace with a new set of batteries.

Connecting to a PictBridge Compliant Printer

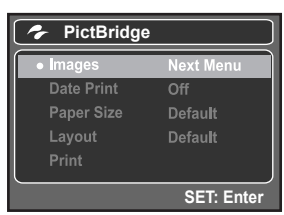
Read this section if the model you purchased is included with the PictBridge functions.
If a printer that supports PictBridge is available, images can be printed by connecting the digital still camera directly to the PictBridge-compatible printer without using a computer.
Connecting the camera to the printer

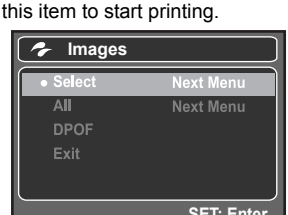
1. Connect one end of the USB cable to your camera.
2. Connect the other end of the USB cable to the USB port on the printer.
3. Turn on your camera.
4. Select [Printer] with the ▲ / ▼ buttons, and press the **SET** button.



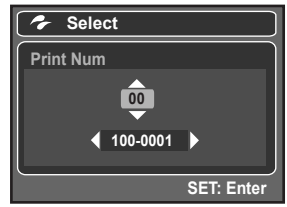
Printing images
When the camera is properly connected to a PictBridge compliant printer and set to [Printer], the PictBridge menu is displayed on the monitor.

1. Select the item you want to configure with the ▲ / ▼ buttons, and press the **SET** button.
   - [Images]: Select whether you want to print specific image or all images. You may also select printing number for specific image.
   - [Date Print]: According to the printer type, select whether you want to print the image with date imprint or not.
   - [Paper Size]: Select the desired paper size according to the printer type. You can select [Default], [L Format], [2L Format], [Postcard], [Card], [10 x 15cm], [4 x 6] or [A4].
   - [Layout]: Select the desired printing layout according to the printer type. You can select [Default], [1 Up], [2 Up], [3 Up], [4 Up], [Index] or [Borderless].
   - [Print]: After all settings are configured, select this item to start printing.
2. If you select [Images] in the previous step, the figure shown on the right hand side will appear. Select [Select], [All], [DPOF] with the ▲ / ▼ buttons, and press the **SET** button.
   - [Select]: Select to print one specific image.
   - [All]: Select to print all images.
   - [DPOF]: Select to print images with DPOF settings.
   - [Exit]: Exit from Images option.

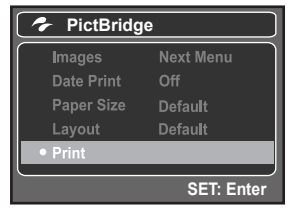




3. If you select [Select] in the previous step, the figure shown on the right hand side will appear.
   - Select the image that you want to print with the ◄ / ► buttons.
   - Select the [Print Num] (up to 99) with the ▲ / ▼ buttons.
   - After selecting the desired image and printing number, press the **SET** button to confirm.



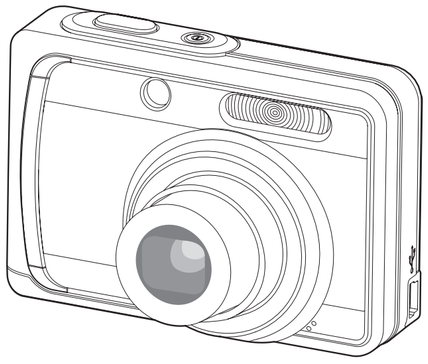
4. Select [Print] with the ▲ / ▼ buttons, and press the **SET** button to start printing.



5. The printing starts and the figure shown on the right hand side appears.
   - The [COMPLETE] will be displayed temporarily, reminding you that the printing procedure is finished.
   - If a print error is detected, the [PRINT ERROR] will be displayed.

- The image printing may be failed if the power to the camera is cut off.

QUICK START GUIDE

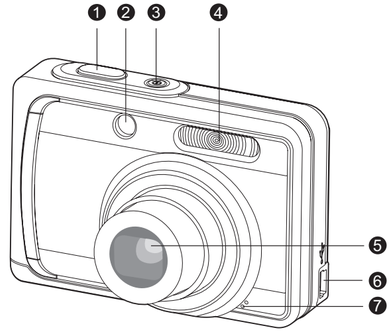


Helpline Number: 08704460806

This ***Quick Start Guide*** is only for quick reference. For more details on advanced functions, you can refer to your user's manual.

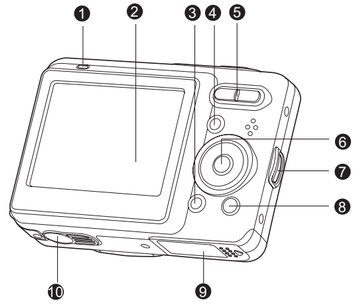
GETTING TO KNOW YOUR CAMERA

Front View



1.	Shutter button
2.	Self-timer LED
3.	Power button
4.	Flash
5.	Lens
6.	USB connector
7.	Microphone

Rear View

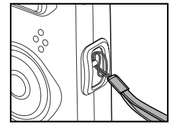


1.	Status LED
2.	LCD monitor
3.	**MENU** Menu button
4.	**MODE** Mode button Capture mode Video mode
5.	Zoom in button Zoom out button
6.	5-way control button **SCN/SET** Scene/Set button ▲ Up button Focus button ▶ Right button Flash button ▼ Down button Self-timer button Delete button ◀ Left button Backlight / Exposure compensation button
7.	Strap holder
8.	Playback button
9.	Battery / Memory card cover
10.	Tripod socket

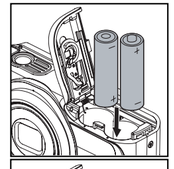
GETTING STARTED

Preparation

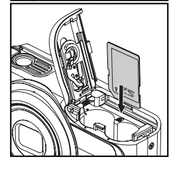
1. Attach the camera strap.



2. Open the battery/memory card cover.
3. Load the supplied batteries with correct orientation as shown.



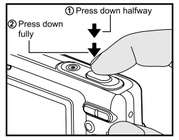
4. Insert an SD/SDHC memory card (Optional).
   - The camera has 32MB internal memory (28MB available for image storage), but you can load an SD/SDHC memory card to expand the camera's memory capacity.
   - Be sure to format the memory card with this camera before its initial usage.
5. Close the battery/memory card cover and make sure it is locked securely.



Capturing Images

Your camera is equipped with a 2.36" full color LTPS-TFT LCD monitor to help you compose images, playback recorded images/video clips or adjust menu settings.

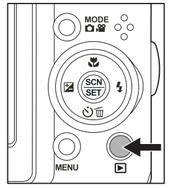
1. Press the Power button to turn the power on.
   - The status LED lights green and the camera is initiated.
2. Set the camera mode to [ ].
3. Compose your image in the LCD monitor.
   - Pressing the button zooms in on the subject, and enlarges the subject on the LCD monitor.
   - Pressing the button provides a wider angle image.
4. Press the shutter button.
   - Pressing the shutter button down halfway automatically focuses and adjusts the exposure, and pressing the shutter button down fully captures the images.
   - The focus area frame turns blue when the camera is in focus and the exposure is calculated.
   - When the focus or exposure is not suitable, the frame of the focus area turns yellow.

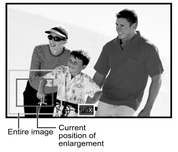


Playing Back Still Images

You can play back the still images on the LCD monitor.

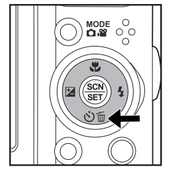
1. Press the button.
   - The last image appears on the screen.
2. The images can be displayed in reverse or forward sequence with the ◀ / ▶ buttons.
   - To view the previous image, press the ◀ button.
   - To view the next image, press the ▶ button.
   - Pressing the button enlarges the image.
   - To return to normal magnification, press the button.





Erasing single image

1. Press the button.
   - The last image will be displayed on the screen.
2. Select the image you want to erase with the ◀ / ▶ buttons.
3. Press the button.
   - The deletion menu will be displayed.
4. Select [Single] with the ▲ / ▼ buttons, and press the **SET** button.
   - [Single]: Erases the selected image or the last image.
5. Select [Execute] with the ▲ / ▼ buttons, and press the **SET** button.
   - To not erase, select [Cancel], and press the **SET** button.



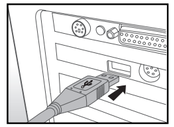
TRANSFERRING FILES TO YOUR COMPUTER

System Requirement

Windows	Macintosh
■ Pentium 166 MHz or higher	■ PowerPC G3/G4/G5
■ Windows 2000/XP/Vista	■ OS 9.0 or later
■ 128MB RAM	■ 128MB RAM
■ 128MB hard disk space	■ 128MB hard disk space
■ CD-ROM drive	■ CD-ROM drive
■ Available USB port	■ Available USB port

Downloading Your Files

1. Connect one end of the USB cable to an available USB port on your computer.
2. Connect the other end of the USB cable to the USB terminal on the camera.
3. Turn on your camera.
4. Select [PC] using the ▲ / ▼ buttons, and press the **SET** button.
5. From the Windows desktop, double click on "My Computer".
6. Look for a new "removable disk" icon.
   - This "removable disk" is actually the memory (or memory card) in your camera. Typically, the camera will be assigned drive letter "e" or higher.
7. Double click on the removable disk and locate the DCIM folder.
8. Double click on the DCIM folder to open it to find more folders.
   - Your recorded images and video clips will be inside these folders.
9. Copy & Paste or Drag-N-Drop image and video files to a folder on your computer.



Mac users: Double-click the "untitled" or "unlabeled" disk drive icon on your desktop. iPhoto may automatically launch.